

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA.	BHF00-0151-01(006)	117	244

BRIDGE CONSISTS OF

3 - 100'-0" BULB TEE, 54 IN, PSC BEAM SPANS -----	SPECIAL DESIGN
9 - 40'-0" TYPE I MOD PSC BEAM SPANS -----	SPECIAL DESIGN
2 - STEEL H PILE END BENTS -----	SPECIAL DESIGN
8 - STEEL H PILE INTERMEDIATE BENTS -----	SPECIAL DESIGN
3 - CONCRETE INTERMEDIATE BENTS -----	SPECIAL DESIGN
4 - END POST AND GUARDRAIL ATTACHMENT DETAIL -----	GA. STD. 3054 (9-30-02) (L = 6'-0"; W = 1'-4"; H = 2'-8")
BAR BENDING DETAILS -----	GA. STD. 3901 (8-69)
TYPICAL FILL DETAIL AT END OF BRIDGE -----	GA. STD. 9037 (9-99)

DESIGN DATA

SPECIFICATIONS -----	AASHTO 17TH EDITION, 2002 (DESIGNED FOR SEISMIC PERFORMANCE CATEGORY B)
TYPICAL HS20-44 AND/OR MILITARY LOADING -----	IMPACT ALLOWED
FUTURE PAVING ALLOWANCE -----	30 LBS PER SQ FT
CONCRETE: SUPERSTRUCTURE -----	CLASS AA, f_c = 3,500 PSI
PSC BEAMS -----	CLASS AAA, f_c = SEE BEAM SHEETS
PSC BEAM ALLOWABLE TENSION -----	SEE BEAM SHEETS
SUBSTRUCTURE -----	CLASS AA, f_c = 3,500 PSI
REINFORCEMENT STEEL: -----	GRADE 60, f_y = 60,000 PSI
PRETENSIONING STRANDS: -----	f_s = 270,000 PSI

DRAINAGE DATA

DRAINAGE AREA -----	883.87 SQ MILES
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FLOOD FREQUENCY	DISCHARGE	VELOCITY	UNDER FLOODSTAGE	BACKWATER
50 YEAR	46839 CFS	8.35 FPS	3,867 SQ FT	0.65 FT
100 YEAR	53090 CFS	8.53 FPS	4,317 SQ FT	0.92 FT
500 YEAR	69744 CFS	8.88 FPS	5,560 SQ FT	1.44 FT

TRAFFIC DATA

TRAFFIC -----	ADT = 4,500 (2014) ADT = 6,700 (2034)
DESIGN SPEED -----	55 MPH
TRUCKS -----	5 %
24 HR TRUCKS -----	11 %
DIRECTIONAL -----	55 %

UTILITIES

6 TELEPHONE CONDUITS -----	AT&T
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GENERAL NOTES

SPECIFICATIONS - GEORGIA STANDARD SPECIFICATIONS, 2001 EDITION, AND 2008 SUPPLEMENTAL SPECIFICATIONS AS MODIFIED BY CONTRACT DOCUMENTS.
REINFORCING STEEL - PLACE AND TIE ALL REINFORCING STEEL IN ACCORDANCE WITH THE GEORGIA DOT SPECIFICATIONS. DO NOT WELD REINFORCING STEEL.
CHAMFER - CHAMFER ALL EXPOSED CONCRETE EDGES 3/4" UNLESS OTHERWISE NOTED.
TRAFFIC CONTROLS - SEE ROADWAY PLANS FOR TRAFFIC CONTROLS AND TRAFFIC CONTROL PAYMENT.
EXISTING BRIDGE PLANS - ORIGINAL BRIDGE PLANS MAY BE PURCHASED BY CONTACTING THE PLANS REPRODUCTION OFFICE AT (404) 347-0600. THE ORIGINAL BRIDGE WAS BUILT UNDER PROJECT NUMBER BA(2) 1184-A(1).
WAITING PERIOD - NONE REQUIRED.
PLAN DRIVING OBJECTIVE - SEE SUBSTRUCTURE DETAILS.
DRIVING DATA PILES - ONE DRIVING DATA PILE SHALL BE REQUIRED AT EACH OF BENTS 1, 4, 8, AND 13.
PILE BENT SWAYBRACING - SWAYBRACING REQUIRED AT INTERMEDIATE BENTS 5 THROUGH 12.
PILE ENCASEMENT - ENCASE PILES AT BENTS 5 THROUGH 12 IN CONCRETE UP TO ELEVATION 610.00 OR 2'-0" ABOVE GROUND, WHICHEVER IS HIGHER. ENCASEMENT SHALL BE IN ACCORDANCE WITH SECTION 547 OF THE GEORGIA DOT SPECIFICATIONS.
SMOOTH DOWEL BARS - PLACE SMOOTH DOWEL BARS IN FORMED 3" DIAMETER X 12" DEEP HOLES AND GROUT IN PLACE SIMILAR TO ANCHOR BOLTS, SEE SUB-SECTION 501.3.05.B.3 OF THE GEORGIA DOT SPECIFICATIONS. STIRRUPS MAY BE SHIFTED SLIGHTLY TO CLEAR FORMED HOLES.
UTILITY HANGERS - FURNISH AND INSTALL CONCRETE INSERTS. USE ANVIL FIGURE 282, AAA TECHNOLOGY FIGURE 912 OR APPROVED EQUAL CONCRETE INSERTS. INCLUDE THE COST OF FURNISHING AND INSTALLING CONCRETE INSERTS IN THE OVERALL BID SUBMITTED. ALL OTHER COMPONENTS OF HANGER ASSEMBLIES SHALL BE FURNISHED AND INSTALLED BY UTILITY OWNER.
GROOVED CONCRETE - GROOVE THE ENTIRE LENGTH OF THE BRIDGE TRANSVERSELY AS PER SUB-SECTION 500.3.05.T.9.C OF THE GEORGIA DOT SPECIFICATIONS.
WELDING - ALL WELDING ON GEORGIA DOT PROJECTS SHALL BE PERFORMED BY CERTIFIED WELDERS THAT HAVE IN THEIR POSSESSION A CURRENT WELDING CERTIFICATION CARD ISSUED BY THE OFFICE OF MATERIALS AND RESEARCH. USE ONLY E70XX (EXCLUDING E7014 AND E7024) LOW HYDROGEN ELECTRODES FOR MANUAL SHIELDED METAL ARC WELDING.
SPECIAL PROTECTIVE COATING - CLEAN AND PAINT PILES AND SWAYBRACING WITH SPECIAL PROTECTIVE COATING NO. 2P IN ACCORDANCE WITH SECTIONS 520 AND 535 OF THE GEORGIA DOT SPECIFICATIONS.
SALVAGE MATERIAL - THE STRUCTURAL STEEL BEAMS SHALL BE SALVAGED FROM THE EXISTING BRIDGE AS PART OF THIS CONSTRUCTION PROJECT. THE RESULTING BEAM LENGTHS FOR SPANS #1, #2, AND #3 WILL BE APPROXIMATELY 70 FEET. THE BEAM LENGTHS FOR SPANS #4 THRU #18 WILL BE APPROXIMATELY 54 FEET. THE SALVAGED MATERIAL FROM THE BRIDGE SHALL BE DELIVERED TO DISTRICT 6 STORAGE AREA LOCATED IN CARTERSVILLE, GEORGIA. THE DISTRICT MOTOR POOL SUPERVISOR (WAYNE EVANS) SHALL BE CONTACTED 2 WEEKS PRIOR TO DELIVERY FOR ARRANGEMENT OF UNLOADING THESE MATERIALS. THE CONTRACTOR IS TO LOAD, TRANSPORT, AND UNLOAD THE BEAMS.
INCIDENTAL ITEMS - INCLUDE THE COST INCIDENTAL TO THE WORK THAT IS NOT SPECIFICALLY COVERED BY THE GEORGIA STANDARD SPECIFICATIONS, SUPPLEMENTAL SPECIFICATIONS AND/OR SPECIAL PROVISIONS IN THE OVERALL BID SUBMITTED. THIS INCLUDES THE COST OF WATERPROOFING, JOINT FILLERS, AND OTHER INCIDENTAL ITEMS NECESSARY TO COMPLETE THE WORK.
SPECIAL SURFACE COATING - FEDERAL COLOR #33617 (SAND) SHALL BE APPLIED TO END POST AND ENTIRE CONCRETE PARAPET. REFER TO SPECIAL PROVISION 500 REGARDING TEST PANEL APPROVAL BY THE ENGINEER AND OFFICE OF ENVIRONMENTAL SERVICES PRIOR TO CONSTRUCTION.

SUMMARY OF QUANTITIES

PAY ITEM NUMBER	QUANTITY	UNIT	PAY ITEM
211-0300	69	CY	BRIDGE EXCAVATION, STREAM CROSSING
500-0100	3080	SY	GROOVED CONCRETE
500-1006	LUMP	LS	SUPERSTR CONCRETE, CL AA, BR NO - 2 (941)
500-2110	1308	LF	CONCRETE PARAPET, SPCL DESIGN
500-3002	319	CY	CLASS AA CONCRETE
501-2100	7288	LB	STR STEEL, SWAYBRACING
507-8900	2120	LF	PSC BEAMS, AASHTO TYPE I MOD, BR NO - 2
507-9030	1781	LF	PSC BEAMS, AASHTO, BULB TEE, 54 IN, BR NO - 2
511-1000	59753	LB	BAR REINF STEEL
511-3000	LUMP	LS	SUPERSTR REINF STEEL, BR NO - 2 (201588)
520-1125	300	LF	PILING IN PLACE, STEEL H, HP 12 X 53
520-1147	600	LF	PILING IN PLACE, STEEL H, HP 14 X 73
520-1179	2650	LF	PILING IN PLACE, STEEL H, HP 14 X 117
520-4125	1	EA	LOAD TEST, STEEL H, HP 12 X 53 (IF REQD)
520-4147	1	EA	LOAD TEST, STEEL H, HP 14 X 73 (IF REQD)
520-4179	1	EA	LOAD TEST, STEEL H, HP 14 X 117 (IF REQD)
524-0010	120	LF	DRILLED CAISSON - 66 IN
540-1101	LUMP	LS	REMOVAL OF EXISTING BR, STA - 122+00
547-2014	192	LF	PILE ENCASEMENT, 14 IN PILE
603-2024	509	SY	STN DUMPED RIP RAP, TP 1, 24 IN
603-7000	509	SY	PLASTIC FILTER FABRIC
634-1800	4	EA	NAME PLAQUES - SPCL DES

BRIDGE NO. 2



3715 NORTHSIDE PARKWAY N.W.
BUILDING 300, SUITE 400
ATLANTA, GEORGIA 30327
(404) 720-1400

GEORGIA
DEPARTMENT OF TRANSPORTATION
ENGINEERING DIVISION-OFFICE OF BRIDGES AND STRUCTURES

GENERAL NOTES
SR 225 OVER COOSAWATTEE RIVER
GORDON COUNTY BHF00-0151-01(006)

SCALE: NONE APRIL 2013

DESIGNED AS	CHECKED TQT	REVIEWED WMD
DRAWN AS	DESIGN GROUP EJC	APPROVED BFR

DRAWING NO. 35-17
BRIDGE SHEET 2 OF 22

DATE					
REVISIONS					
BY					